

## [ CLAIMS ]

What is claimed is:

1. A microscope slide stainer with random access slide staining capability comprising:
  - 5 a moving platform;
  - a plurality of heating stations on the platform, each heating station adapted to support at least one microscope slide bearing biological samples; and
  - 10 electronic control for heating the individual heating surfaces to individual temperatures.
2. A microscope slide stainer as claimed in claim 1 wherein each of the heating surfaces supports a single microscope slide.
- 15 3. A microscope slide stainer as claimed in claim 1 further comprising a temperature sensor for sensing microscopic slide temperature.
4. A microscope slide stainer as claimed in claim 1 further comprising a thermocouple for sensing microscope slide temperature.